

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/038,722B
Source: IFW16
Date Processed by STIC: 4/21/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 04/21/2005

PATENT APPLICATION: US/10/038,722B

TIME: 11:42:03

Input Set : A:\D0617.70005US01 seqs.txt

Output Set: N:\CRF4\04212005\J038722B.raw

4 <110> APPLICANT: LEY, Arthur C.
 5 GUTERMAN, Sonia K.
 6 MARKLAND, William
 7 KENT, Rachel B.
 8 ROBERTS, Bruce L.
 9 LADNER, Robert C.
 11 <120> TITLE OF INVENTION: ITI-D1 KUNITZ DOMAIN MUTANTS AS HNE INHIBITORS
 13 <130> FILE REFERENCE: D0617.7005US01
 15 <140> CURRENT APPLICATION NUMBER: 10/038,722B
 16 <141> CURRENT FILING DATE: 2002-01-08
 18 <150> PRIOR APPLICATION NUMBER: US 08/849,406
 19 <151> PRIOR FILING DATE: 1999-07-21
 21 <150> PRIOR APPLICATION NUMBER: PCT/US95/16349
 22 <151> PRIOR FILING DATE: 1995-12-15
 24 <150> PRIOR APPLICATION NUMBER: US 08/358,160
 25 <151> PRIOR FILING DATE: 1994-12-16
 27 <150> PRIOR APPLICATION NUMBER: US 08/133,031
 28 <151> PRIOR FILING DATE: 1992-02-28
 30 <160> NUMBER OF SEQ ID NOS: 143
 32 <170> SOFTWARE: PatentIn version 3.1
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 276
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 42 <223> OTHER INFORMATION: IIIsp::bpti::matureIII (initial fragment)
 44 <400> SEQUENCE: 1
 45 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctgg cgcccgctccg 60
 47 gatttctgtc tcgagccacc atacactggg ccctgcaaag cgcgcatcat ccgctatttc 120
 49 tacaatgcta aagcaggcct gtgccagacc tttgtatacg gtgggtgccc tgctaagcgt 180
 51 aacaacttta aatcggccga agattgcatg cgtacctgcy gtggcgccgc tgaaactgtt 240
 53 gaaagttgtt tagcaaaacc ccatacagaa aattca 276
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 92
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: IIIsp::bpti::matureIII (initial fragment)
 64 <400> SEQUENCE: 2
 66 Met Lys Lys Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
 67 1 5 10 15
 69 Gly Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys
 70 20 25 30

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72 Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys
73      35      40      45
75 Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys
76      50      55      60
78 Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala Ala Glu Thr Val
79 65      70      75      80
81 Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn Ser
82      85      90
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 285
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
92 <223> OTHER INFORMATION: IIIsp::itiD1::mature III fusion gene
94 <400> SEQUENCE: 3
95 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctgg cgccaaagaa      60
97 gactcttgcc agctgggcta ctcggccggt ccctgcatgg gaatgaccag caggatatttc      120
99 tataatggta catccatggc ctgtgagact ttccagtacg gcggtgcat gggcaacggt      180
101 aacaacttcg tcacagaaaa ggagtgtctg cagacctgcc gaactgtggg cgccgctgaa      240
103 actgttgaaa gttgttttagc aaaaccccat acagaaaatt catatt      285
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 95
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
113 <223> OTHER INFORMATION: IIIsp::itiD1::mature III fusion gene
115 <400> SEQUENCE: 4
117 Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
118 1      5      10      15
120 Gly Ala Lys Glu Asp Ser Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys
121      20      25      30
123 Met Gly Met Thr Ser Arg Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys
124      35      40      45
126 Glu Thr Phe Gln Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Val
127      50      55      60
129 Thr Glu Lys Glu Cys Leu Gln Thr Cys Arg Thr Val Gly Ala Ala Glu
130 65      70      75      80
132 Thr Val Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn Ser Phe
133      85      90      95
136 <210> SEQ ID NO: 5
137 <211> LENGTH: 58
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
143 <223> OTHER INFORMATION: Consensus Kunitz domain
145 <400> SEQUENCE: 5
147 Arg Pro Asp Phe Cys Leu Leu Pro Ala Glu Thr Gly Pro Cys Arg Ala
148 1      5      10      15
150 Met Ile Pro Arg Phe Tyr Tyr Asn Ala Lys Ser Gly Lys Cys Glu Pro

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151          20          25          30
153 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys Thr Glu
154          35          40          45
156 Glu Glu Cys Arg Arg Thr Cys Gly Gly Ala
157          50          55
160 <210> SEQ ID NO: 6
161 <211> LENGTH: 58
162 <212> TYPE: PRT
163 <213> ORGANISM: Bos Taurus
165 <400> SEQUENCE: 6
167 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
168 1          5          10          15
170 Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
171          20          25          30
174 Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
175          35          40          45
177 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
178          50          55
181 <210> SEQ ID NO: 7
182 <211> LENGTH: 58
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
W--> 185 <220> FEATURE:
187 <223> OTHER INFORMATION: Epi-HNE-1
189 <400> SEQUENCE: 7
191 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
192 1          5          10          15
194 Phe Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
195          20          25          30
197 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
198          35          40          45
200 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
201          50          55
204 <210> SEQ ID NO: 8
205 <211> LENGTH: 62
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
211 <223> OTHER INFORMATION: Epi-HNE-2
213 <400> SEQUENCE: 8
215 Glu Ala Glu Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly
216 1          5          10          15
218 Pro Cys Ile Ala Phe Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly
219          20          25          30
221 Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn
222          35          40          45
224 Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
225          50          55          60
228 <210> SEQ ID NO: 9

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229 <211> LENGTH: 58
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
235 <223> OTHER INFORMATION: EpiNE7
237 <400> SEQUENCE: 9
239 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
240 1 5 10 15
241 Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
242 20 25 30
244 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
245 35 40 45
246 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
247 50 55
250 <210> SEQ ID NO: 10
251 <211> LENGTH: 58
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
257 <223> OTHER INFORMATION: EpiNE3
259 <400> SEQUENCE: 10
261 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Gly
262 1 5 10 15
264 Phe Phe Ser Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
265 20 25 30
267 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
268 35 40 45
270 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
271 50 55
274 <210> SEQ ID NO: 11
275 <211> LENGTH: 58
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
281 <223> OTHER INFORMATION: EpiNE6
283 <400> SEQUENCE: 11
285 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Gly
286 1 5 10 15
288 Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
289 20 25 30
291 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
292 35 40 45
294 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
295 50 55
298 <210> SEQ ID NO: 12
299 <211> LENGTH: 58
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:

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Input Set : A:\D0617.70005US01 seqs.txt

Output Set: N:\CRF4\04212005\J038722B.raw

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305 <223> OTHER INFORMATION: EpiNE4
307 <400> SEQUENCE: 12
309 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
310 1 5 10 15
312 Ile Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
313 20 25 30
315 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
316 35 40 45
318 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
319 50 55
322 <210> SEQ ID NO: 13
323 <211> LENGTH: 58
324 <212> TYPE: PRT
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
329 <223> OTHER INFORMATION: EpiNE8
331 <400> SEQUENCE: 13
333 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
334 1 5 10 15
336 Phe Phe Lys Arg Ser Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
337 20 25 30
339 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
340 35 40 45
342 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
343 50 55
346 <210> SEQ ID NO: 14
347 <211> LENGTH: 58
348 <212> TYPE: PRT
349 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
353 <223> OTHER INFORMATION: EpiNE5
355 <400> SEQUENCE: 14
357 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
358 1 5 10 15
360 Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
361 20 25 30
362 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
363 35 40 45
365 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
366 50 55
368 <210> SEQ ID NO: 15
369 <211> LENGTH: 58
370 <212> TYPE: PRT
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
375 <223> OTHER INFORMATION: EpiNE2
377 <400> SEQUENCE: 15
379 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
380 1 5 10 15

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/21/2005
PATENT APPLICATION: US/10/038,722B TIME: 11:42:04

Input Set : A:\D0617.70005US01 seqs.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:82; N Pos. 37,38,40,41,42,47,52,56,58,64,65,66,71,72,100,101,103,104
Seq#:82; N Pos. 109,110,124,125,128,133,134
Seq#:83; Xaa Pos. 13,14,16,18,19,20,22,24,34,35,37,42,43,45
Seq#:84; N Pos. 34,35,37,38,39,43,44,49,53,55,56,61,62,63,68,69,97,98,100
Seq#:84; N Pos. 101,106,107,121,122,125,130,131
Seq#:85; Xaa Pos. 12,13,15,17,18,19,21,23,33,34,36,41,42,44
Seq#:86; Xaa Pos. 2,3,4,5,6,7,9,11,12,13,14,15,16,17,18,19,20,21,22,23,24
Seq#:86; Xaa Pos. 25,27,28,30,31,32,35,36,37,38,39,40,41,42,43,44,45,46,48
Seq#:86; Xaa Pos. 49,50
Seq#:103; Xaa Pos. 1
Seq#:104; Xaa Pos. 1
Seq#:106; Xaa Pos. 1
Seq#:109; Xaa Pos. 1
Seq#:123; Xaa Pos. 1
Seq#:127; N Pos. 4,5,6,7,8
Seq#:128; N Pos. 4,5,6,7,8,9,10,11,12

VERIFICATION SUMMARY

DATE: 04/21/2005

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Input Set : A:\D0617.70005US01 seqs.txt

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L:185 M:283 W: Missing Blank Line separator, <220> field identifier
L:2331 M:283 W: Missing Blank Line separator, <400> field identifier
L:2807 M:283 W: Missing Blank Line separator, <220> field identifier
L:2923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
M:341 Repeated in SeqNo=82
L:2991 M:283 W: Missing Blank Line separator, <220> field identifier
L:3013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
M:341 Repeated in SeqNo=83
L:3064 M:283 W: Missing Blank Line separator, <220> field identifier
L:3165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
M:341 Repeated in SeqNo=84
L:3257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
M:341 Repeated in SeqNo=85
L:3356 M:283 W: Missing Blank Line separator, <400> field identifier
L:3358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
M:341 Repeated in SeqNo=86
L:3743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
L:3768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:3816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:3880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:4177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:4280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:4298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0